

Title (en)
Purified proteolytic enzyme and procedure for purification

Title (de)
Gereinigtes proteolytisches Enzym und Verfahren zur Reinigung

Title (fr)
Enzyme protéolytique purifiée et procédé de purification

Publication
EP 0899331 B1 20070221 (FR)

Application
EP 97202591 A 19970822

Priority
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Abstract (en)
[origin: EP0899331A1] New purified proteolytic enzyme preparation is characterised by a residual phospholipase A2 activity which is less than 20 mU/g when measured by high performance chromatography of phospholipids after incubation with an infant formula with undetectable phospholipase A2 activity; the protease activity is maintained at least 75% of the initial activity of the enzyme. Also claimed are: (1) a process of purifying proteolytic enzyme (especially trypsin) comprising: (a) adjusting the pH of the protease solution to 6-9 at 20-35 degrees C for 15-120 minutes to destroy the lipolytic activity of the lipases and phospholipases using the proteolytic activity of the protease; (b) reducing the pH of the solution to less than 3.5 (the order of stages (a) and (b) can be reversed); and (2) a process for preparing infant base food by hydrolysing protein comprising: (a) hydrolysing lactoseric product using the purified protease at 75-85 degrees C for 3-5 minutes. Liquid fats and minerals are added before UHT treatment at 125-135 degrees C for 2-3 minutes. Carbohydrates, vitamins and trace elements sterilised by UHT are added. The product is optionally dried (especially spray dried) and the product is aseptically packaged.

IPC 8 full level
C12N 9/76 (2006.01); **A23J 3/34** (2006.01); **A61K 38/00** (2006.01)

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